

Service Manual

Pioneer

ORDER NO.
RRV2459

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D810S VSX-D810S-G

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by the following method.
	VSX-D810S	VSX-D810S-G		
SDPWXJI	○	—	AC110V/120-127V/220V/240V	With the voltage selector
BXJI	—	○	AC110V/120-127V/220V/240V	With the voltage selector
HLXJI	—	○	AC220-230V	AC240V, *

* : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in this Manual.

● This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
VSX-D810S/KUXJI	RRV2431	

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The Δ mark found on some component parts indicates the importance of the safety factor of the part.

Therefore, when replacing, be sure to use parts of identical designation.

● Screws adjacent to $\blacktriangledown$ mark on product are used for disassembly.

● Reference Nos. indicate the pages and Nos. in the service manual for the base model.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 $\rightarrow$ $56 \times 10^1 \rightarrow$ 561 RD1/4PU $\overline{561}$ J

47k $\rightarrow$ $47 \times 10^3 \rightarrow$ 473 RD1/4PU $\overline{473}$ J

0.5 $\rightarrow$ R50 RN2H $\overline{R50}$ K

1 $\rightarrow$ 1R0 RS1P $\overline{1R0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k $\rightarrow$ $562 \times 10^1 \rightarrow$ 5621 RN1/4PC $\overline{5621}$ F

■ CONTRAST TABLE

VSX-D810S/SDPWXJI, VSX-D810S-G/BXJI, HLXJI and VSX-D810S/KUXJI are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.				Remarks	
			VSX-D810S /KUXJI	VSX-D810S /SDPWXJI	VSX-D810S-G /BXJI	VSX-D810S-G /HLXJI		
		PCB ASSEMBLIES						
P5- 2	NSP	AMP&PS ASSY	XWK3023	XWK3025	XWK3025	XWK3024	No. 1	
P5-12	NSP	└ AMP&PRIMARY ASSY	XWZ3380	XWZ3382	XWZ3382	XWZ3381		
		└ TRANS 1 ASSY	XWZ3390	Not used	Not used	XWZ3390		
		└ VOLTAGE SELECT SW ASSY	Not used	XWZ3394	XWZ3394	Not used		
P5-11		FM/AM TUNER MODULE	AXQ7231	AXQ7228	AXQ7228	AXQ7228		
P6- 1	NSP	COMPLEX ASSY	XWK3010	XWK3012	XWK3012	XWK3013	No. 2	
		└ FRONT ASSY	XWZ3345	XWZ3347	XWZ3347	XWZ3348		
		└ MECHA SW ASSY	Not used	XWZ3358	XWZ3358	XWZ3358		
PACKING SECTION								
P3- 2	NSP	Warranty Card	ARY7045	Not used	Not used	Not used	Accessories	
P3- 5		Operating Instructions (English)	XRB3004	Not used	Not used	Not used		
P3- 5		Operating Instructions (English/Chinese/Spanish)	Not used	XRE3038	XRE3038	XRE3038		
P3-13		Packing Case	XHD3147	XHD3159	XHD3161	XHD3160		
	⚠	Caution 220V Label	Not used	ARR1003	ARR1003	Not used		
		AC Plug Adapter	Not used	Not used	AKX7011	Not used		
EXTERIOR SECTION								
P5-15	⚠	Power Transformer (AC120V)	XTS3044	Not used	Not used	Not used		
P5-15	⚠	Power Transformer (AC110V/120-127V/220V/240V)	Not used	XTS3049	XTS3049	Not used		
P5-15	⚠	Power Transformer (AC220-230V)	Not used	Not used	Not used	XTS3047		
P5-16	⚠	Fuse (FU1 : 10A)	REK1087	Not used	Not used	Not used		
P5-16	⚠	Fuse (FU1 : T6.3A)	Not used	REK1030	REK1030	Not used		
P5-16	⚠	Fuse (FU1 : T3.15A)	Not used	Not used	Not used	REK1027		
P5-18	⚠	Fuse (FU701 : 10A)	REK1087	Not used	Not used	Not used		
P5-19		Cord Stopper/Cord Bush	CM-22C	AEC7317	AEC7317	CM-22B		
P5-20	⚠	AC Power Cord	VDG1075	XDG3010	XDG3010	VDG1076		
P5-39		Rear Panel	XNC3077	XNC3088	XNC3088	XNC3089	No. 3	
P5-40		Bonnet Case	XZN3112	XZN3112	XZN3114	XZN3114		
		Screw (Both sides of Bonnet Case)	FBT40P080FZK	FBT40P080FZK	FBT40P080FNI	FBT40P080FNI		
	⚠	Fuse (FU2, FU3 : T3.15A)	Not used	REK1027	REK1027	Not used		
	NSP	Fuse Card	Not used	XAX3218	XAX3218	AAX7493	No. 4	
	⚠	Voltage Selector	Not used	AKX-507	AKX-507	Not used	No. 5	

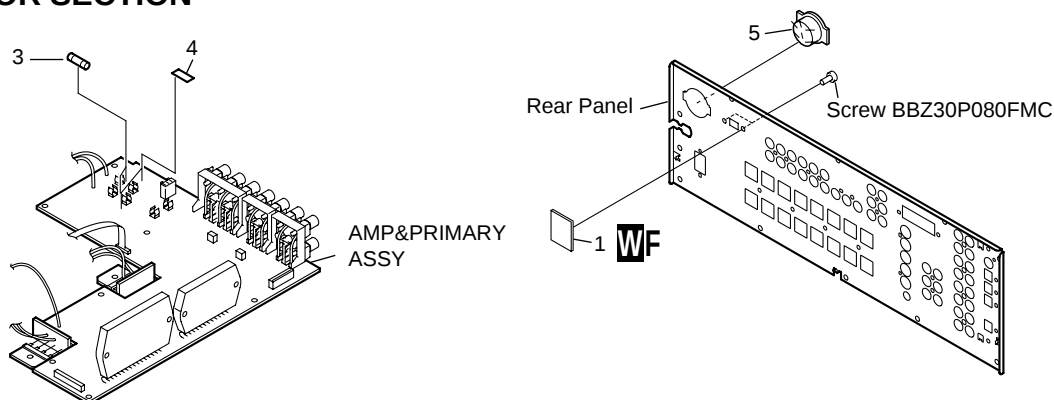
Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-D810S /KUXJI	VSX-D810S /SDPWXJI	VSX-D810S-G /BXJI	VSX-D810S-G /HLXJI	
		FRONT PANEL SECTION					
P6-9	NSP	Name Plate	PAM1776	PAM1776	PAM1779	PAM1779	
P6-11		Select Knob	XAB3008	XAB3008	XAB3009	XAB3009	
P6-12		Volume Knob	XAB3011	XAB3011	XAB3012	XAB3012	
P6-13		Power Button	XAD3062	XAD3062	XAD3063	XAD3063	
P6-15		Jog Button	XAD3065	XAD3065	XAD3066	XAD3066	
P6-16		Door Button	XAD3070	XAD3070	XAD3071	XAD3071	
P6-18		Display Panel	XAK3172	XAK3172	XAK3186	XAK3186	
P6-19		Button Cover	XAK3253	XAK3224	XAK3225	XAK3225	
P6-20		Cushion	XED3001	XED3001	XED3002	XED3002	
P6-21		Front Panel	XMB3033	XMB3041	XMB3042	XMB3042	
P6-26		Door Assy	XXG3068	XXG3068	XXG3075	XXG3075	
P6-27		Door	XAK3173	XAK3173	XAK3174	XAK3174	
P6-28		Door Cover	XAK3175	XAK3175	XAK3176	XAK3176	
P6-29		Screw	XBA3001	XBA3001	XBA3002	XBA3002	
		Power Button M	Not used	AAD7442	AAD7491	AAD7491	

Notes : ●The numbers in the remarks column correspond to the numbers on the “EXPLODED VIEWS”.

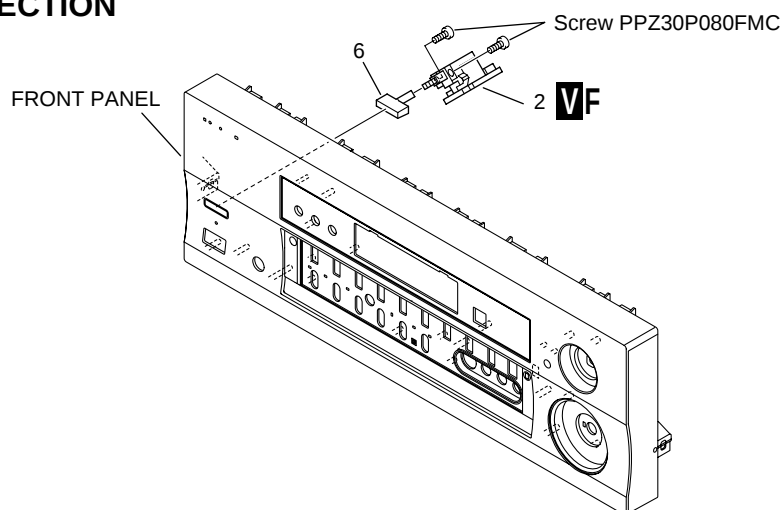
- For PCB ASSEMBLIES, Refer to “CONTRAST OF PCB ASSEMBLIES”, “PCB PARTS LIST”, “2. SCHEMATIC DIAGRAM” and “3. PCB CONNECTION DIAGRAM”.

■ EXPLODED VIEWS

● EXTERIOR SECTION



● FRONT PANEL SECTION



VSX-D810S, VSX-D810S-G

■ CONTRAST OF PCB ASSEMBLIES

CF AMP&PRIMARY ASSY

XWZ3382, XWZ3381 and XWZ3380 are constructed the same except for the following :

Mark	Symbol and Description	Part No.			Remarks
		XWZ3380	XWZ3382	XWZ3381	
△	IC52 PROTECTOR (315mA) Q701 Q702 D57, D751, D753, D757 D602, D604, D681, D682	Not used 2SC4793 2SA1837 Not used MTZJ16A	AEK7003 2SC4793 2SA1837 1SS133 MTZJ8.2A	AEK7003 2SD1859X 2SB1238X 1SS133 MTZJ8.2A	
△	T51 STANDBY TRANSFORMER C607, C608, C634, C657, C658, C684 C705, C706 C751, C752, C755, C761, C762, C771 C753, C754, C756, C763, C764, C772	ATT7057 Not used CEHAT100M2A CFTYA104J50 Not used	ATT7038 Not used CEHAT100M2A CFTYA224J50 CFTYA224J50	ATT7037 CCCSL101J50 CEAT100M2A CFTYA224J50 CFTYA224J50	
△	C757-C759, C765-C768, C773 C769, C770 R51 (2.2MΩ/ 1/2W) R701, R702 R703, R704	Not used Not used RCN1080 RD1/4PU562J RD1/4PU203J	Not used Not used Not used RD1/4PU682J RD1/4PU683J	CQ MBA472J50 CKPUYB102K50 Not used RD1/4PU682J RD1/4PU683J	
△	R707, R708 R711 H53-H56 FUSE CLIP H701, H702 FUSE CLIP 51 AC SOCKET 1-P	RD1/4PU184J RS2LMF392J Not used AKR7001 AKP1060	RD1/4PU104J RS2LMF332J AKR7001 Not used Not used	RD1/4PU124J RS2LMF332J Not used Not used Not used	
	52 3P CABLE HOLDER 701 7P CABLE HOLDER CN751, CN752 SPEAKER TERMINAL 8-P J11 JUMPER WIRED J12 JUMPER WIRED	Not used XKP3047 AKE7058 Not used Not used	51048-0300 51048-0700 AKE7059 DB215NB0 DB815NB0	51048-0300 XKP3047 AKE7059 Not used Not used	
	J13 JUMPER WIRED J44 3P JUMPER WIRED Y8 AWG14 BOARD IN Y701 AWG14 BOARD IN	Not used Not used Not used ADX7286	DB015NB0 D20PYY0325E ADX7284 Not used	Not used D20PYY0325E ADX7284 Not used	

NF FRONT ASSY

XWZ3347, XWZ3348 and XWZ3345 are constructed the same except for the following :

Mark	Symbol and Description	Part No.			Remarks
		XWZ3345	XWZ3347	XWZ3348	
	R428 R429	Not used RS1/16S0R0J	RS1/16S472J RS1/16S751J	RS1/16S472J RS1/16S182J	

UF FM/AM TUNER MODULE

AXQ7228 and AXQ7231 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AXQ7231	AXQ7228	
	F203 AM CERAMIC FILTER C216, C217	ATF7026 CKSRYB153K50	ATF1155 CKSRYB123K50	

■ PCB PARTS LIST

Mark	No.	Description	Part No.
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V
F MECHA SW ASSY

SWITCHES AND RELAYS

S591			ASG7014
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CAPACITORS

C591, C592			CKSQYF103Z50
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OTHERS

CN591	3PJUMPER CONNECTOR	52151-0310	
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W
F VOLTAGE SELECT SW ASSY

SWITCHES

△	S51	VOLTAGE SELECTOR	AKX1033
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Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

C1/2F AMP&PRIMARY ASSY (SDPWXJI, BXJI : XWZ3382)(HLXJI : XWZ3381)

E J4-J7, Y8

D 851

C2/2

POINT VOLTAGE (V)		
SITUATION	HLXJI	SDPWXJI, BXJI
NO SIGNAL	A/B ±60.0	±61.5
	C/D ±37.5	±37.5

CN751 & CN752	
SDPWXJI	AKE7059
BXJI	
HLXJI	

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491125 FOR IC701 AND IC702 MFD, BY LITTELFUSE INC.

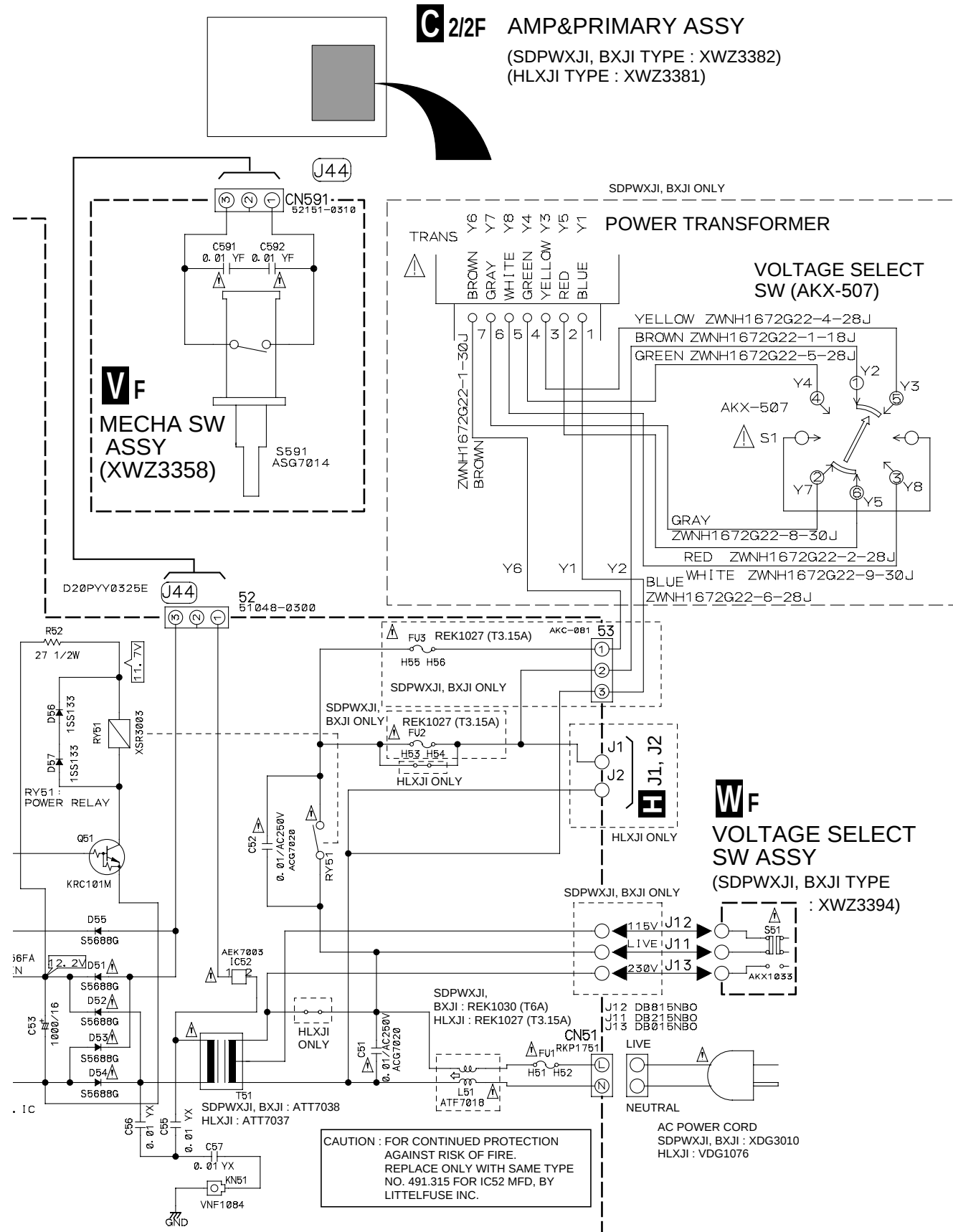
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491001 FOR IC603 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491010 FOR IC604, IC605, IC606, AND IC607 MFD, BY LITTELFUSE INC.

NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

2.2 AMP&PRIMARY (2/2), MECHA SW and VOLTAGE SELECT SW ASSYS

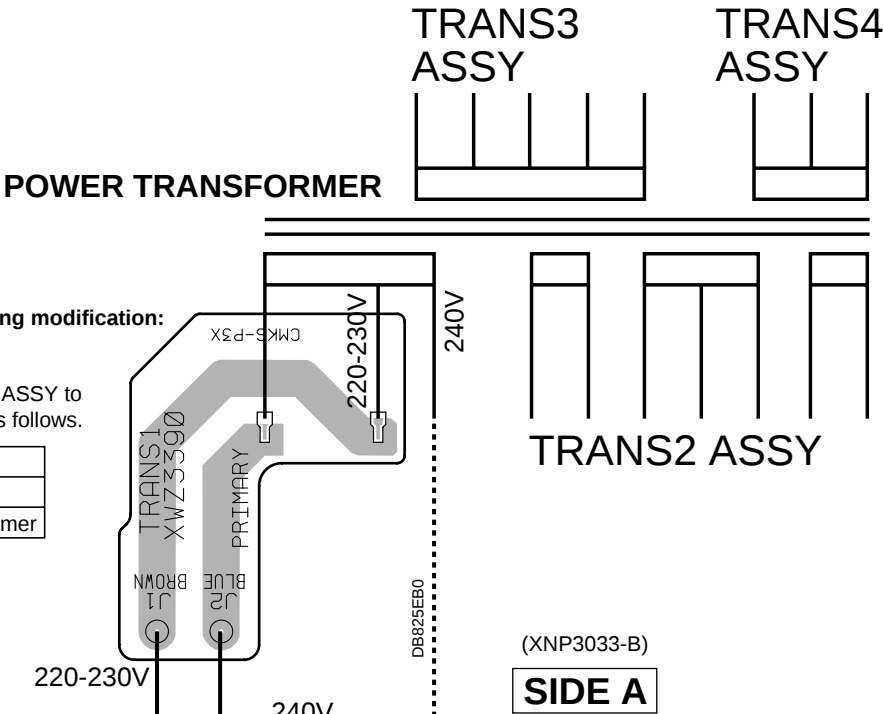
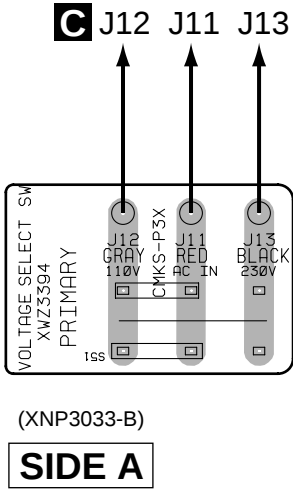
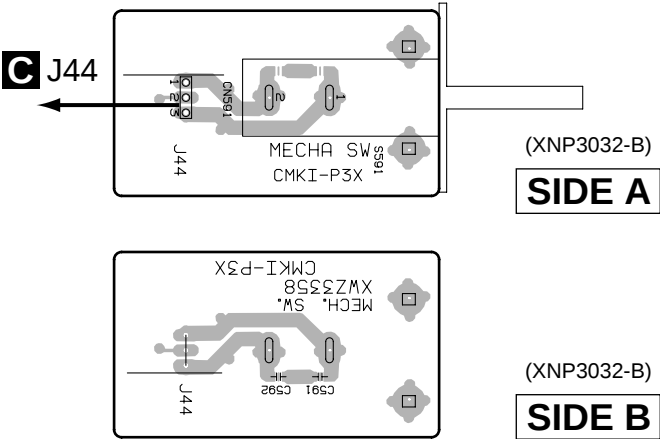


3. PCB CONNECTION DIAGRAM

3.1 MECHA SW, VOLTAGE SELECT SW and TRANS1 ASSYS

WF VOLTAGE SELECT SW ASSY
(SDPWXJI AND BXJI TYPES ONLY)

VF MECHA SW ASSY



- Line Voltage Selection
- Line Voltage can be changed by the following modification:
1. Disconnect the AC power cord.
 2. Remove the cover.
 3. Change the connection wire from TRANS 1 ASSY to AMP&PRIMARY ASSY (Terminal No. J1) as follows.

Voltage	Terminal No.
220-230V	J1 of TRANS 1 ASSY
240V	240V terminal of power transformer

4. Stick a line voltage label on the rear panel.

Description	Part No.
220V label	AAX-193
240V label	AAX-192

H TRANS1 ASSY
(HLXJI TYPE ONLY)

J1 J2